

Module title		Abbreviation
Computer languages and programming 3		07-ASQ-PRO3-201-m01
Module coordinator		Module offered by
--		Faculty of Biology
ECTS	Method of grading	Only after succ. compl. of module(s)
3	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	--	--
Contents		
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Intended learning outcomes		
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Courses (type, number of weekly contact hours, language — if other than German)		
Ü (1) Module taught in: German and/or English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10-20 pages) or c) oral examination of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (approx. 20 to 30 minutes) f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours) Students will be informed about the method and length of the assessment prior to the course Creditable for bonus Language of assessment: German and/or English		
Allocation of places		
max. 10 places (lottery)		
Additional information		
Not for students of biology		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor' degree (1 major) Chemistry (2010) Bachelor' degree (1 major) Chemistry (2009) Bachelor' degree (1 major) Geography (2010) Bachelor' degree (1 major) Computer Science (2014) Bachelor' degree (1 major) Food Chemistry (2009) Bachelor' degree (1 major) Mathematics (2014) Bachelor' degree (1 major) Mathematics (2013) Bachelor' degree (1 major) Physics (2012) Bachelor' degree (1 major) Psychology (2010) Bachelor' degree (1 major) Business Management and Economics (2013) Bachelor' degree (1 major) Business Management and Economics (2010) Bachelor' degree (1 major) Economathematics (2012) Bachelor' degree (1 major) Economathematics (2008) Bachelor' degree (1 major) Business Information Systems (2014) Bachelor' degree (1 major) Indology/South Asian Studies (2013) Bachelor' degree (1 major) Human-Computer Systems (2010)		

Bachelor' degree (1 major) Computational Mathematics (2014)
 Bachelor' degree (1 major) Aerospace Computer Science (2014)
 Bachelor' degree (1 major) Media Communication (2012)
 Bachelor' degree (1 major) Political and Social Studies (2011)
 Bachelor' degree (1 major) Romanic Languages (French/Spanish) (2013)
 Bachelor' degree (1 major) Functional Materials (2012)
 Bachelor's degree (1 major, 1 minor) Pedagogy (2011)
 Bachelor's degree (1 major, 1 minor) Pedagogy (2009)
 Bachelor's degree (1 major, 1 minor) Pedagogy (2013)
 Bachelor's degree (1 major, 1 minor) French Studies (2013)
 Bachelor's degree (1 major, 1 minor) History (2010)
 Bachelor's degree (1 major, 1 minor) History of Medieval and Modern Art (2013)
 Bachelor's degree (1 major, 1 minor) Philosophy (2010)
 Bachelor's degree (1 major, 1 minor) Philosophy (2013)
 Bachelor's degree (1 major, 1 minor) Pre- and Protohistoric Archaeology (2012)
 Bachelor's degree (1 major, 1 minor) Spanish Studies (2010)
 Bachelor's degree (1 major, 1 minor) Science of Music Education (2011)
 Bachelor's degree (1 major, 1 minor) Philosophy and Religion (2014)
 Bachelor's degree (1 major, 1 minor) Geography (Focus Physical Geography) (2010)
 Bachelor's degree (1 major, 1 minor) Political and Social Studies (2013)
 Bachelor's degree (1 major, 1 minor) Museology and material culture (2013)
 Bachelor's degree (1 major, 1 minor) English and American Studies (2010)
 Bachelor's degree (1 major, 1 minor) Russian Language and Culture (2008)
 Bachelor's degree (1 major, 1 minor) Russian Language and Culture (2012)
 Bachelor's degree (1 major, 1 minor) Gallo-Roman philology (2010)
 Bachelor's degree (1 major, 1 minor) German Language and Literature (2013)
 Bachelor's degree (1 major, 1 minor) German Language and Literature (2010)
 Bachelor's degree (1 major, 1 minor) Italian Studies (2010)
 Bachelor's degree (2 majors) Egyptology (2011)
 Bachelor's degree (2 majors) Classical Archaeology (2013)
 Bachelor's degree (2 majors) Pedagogy (2013)
 Bachelor's degree (2 majors) Protestant Theology (2009)
 Bachelor's degree (2 majors) History of Medieval and Modern Art (2013)
 Bachelor's degree (2 majors) Musicology (2011)
 Bachelor's degree (2 majors) Philosophy (2013)
 Bachelor's degree (2 majors) Comparative Indo-European Linguistics (2012)
 Bachelor's degree (2 majors) Special Education (2009)
 Bachelor's degree (2 majors) Pre- and Protohistoric Archaeology (2012)
 Bachelor's degree (2 majors) Science of Music Education (2011)
 Bachelor's degree (2 majors) Philosophy and Religion (2014)
 Bachelor's degree (2 majors) Digital Humanities (2012)
 Bachelor's degree (2 majors) Digital Humanities (2009)
 Bachelor's degree (2 majors) Political and Social Studies (2011)
 Bachelor's degree (2 majors) Russian Language and Culture (2012)
 Bachelor's degree (2 majors) European Ethnology (2013)
 Magister Theologiae Catholic Theology (2013)
 Bachelor's degree (2 majors) Geography (2010)
 Bachelor's degree (2 majors) French Studies (2013)
 Bachelor's degree (2 majors) History (2009)
 Bachelor's degree (2 majors) Italian Studies (2013)
 Bachelor's degree (2 majors) Spanish Studies (2013)
 Bachelor's degree (2 majors) Spanish Studies (2009)
 Bachelor's degree (2 majors) English and American Studies (2009)

Bachelor's degree (2 majors) Gallo-Roman philology (2009)
 Bachelor's degree (2 majors) German Language and Literature (2013)
 Bachelor's degree (2 majors) German Language and Literature (2009)
 Bachelor's degree (2 majors) Italian Studies (2009)
 Bachelor' degree (1 major) Biochemistry (2015)
 Bachelor' degree (1 major) Chemistry (2015)
 Bachelor' degree (1 major) Geography (2015)
 Bachelor' degree (1 major) Computer Science (2015)
 Bachelor' degree (1 major) Food Chemistry (2015)
 Bachelor' degree (1 major) Mathematics (2015)
 Bachelor' degree (1 major) Musicology (2015)
 Bachelor' degree (1 major) Physics (2015)
 Bachelor' degree (1 major) Psychology (2015)
 Bachelor' degree (1 major) Business Management and Economics (2015)
 Bachelor' degree (1 major) Nanostructure Technology (2015)
 Bachelor' degree (1 major) Economathematics (2015)
 Bachelor' degree (1 major) Business Information Systems (2015)
 Bachelor' degree (1 major) Biomedicine (2015)
 Bachelor' degree (1 major) Mathematical Physics (2015)
 Bachelor' degree (1 major) Human-Computer Systems (2015)
 Bachelor' degree (1 major) Modern China (2015)
 Bachelor' degree (1 major) Science of Music Education (2015)
 Bachelor' degree (1 major) Computational Mathematics (2015)
 Bachelor' degree (1 major) Aerospace Computer Science (2015)
 Bachelor' degree (1 major) Political and Social Studies (2015)
 Bachelor' degree (1 major) Functional Materials (2015)
 Bachelor' degree (1 major) Academic Speech Therapy (2015)
 Bachelor' degree (1 major) Indology/South Asian Studies (2015)
 Bachelor's degree (1 major, 1 minor) Egyptology (2015)
 Bachelor's degree (1 major, 1 minor) Classical Archaeology (2015)
 Bachelor's degree (1 major, 1 minor) Pedagogy (2015)
 Bachelor's degree (1 major, 1 minor) History (2015)
 Bachelor's degree (1 major, 1 minor) Italian Studies (2015)
 Bachelor's degree (1 major, 1 minor) History of Medieval and Modern Art (2015)
 Bachelor's degree (1 major, 1 minor) Musicology (2015)
 Bachelor's degree (1 major, 1 minor) Philosophy (2015)
 Bachelor's degree (1 major, 1 minor) Spanish Studies (2015)
 Bachelor's degree (1 major, 1 minor) Pre- and Protohistoric Archaeology (2015)
 Bachelor's degree (1 major, 1 minor) Ancient World (2015)
 Bachelor's degree (1 major, 1 minor) Science of Music Education (2015)
 Bachelor's degree (1 major, 1 minor) Philosophy and Religion (2015)
 Bachelor's degree (1 major, 1 minor) Geography (Focus Physical Geography) (2015)
 Bachelor's degree (1 major, 1 minor) Theological Studies (2015)
 Bachelor's degree (1 major, 1 minor) Geography (Focus Human Geography) (2015)
 Bachelor's degree (1 major, 1 minor) Political and Social Studies (2015)
 Bachelor's degree (1 major, 1 minor) Museology and material culture (2015)
 Bachelor's degree (1 major, 1 minor) English and American Studies (2015)
 Bachelor's degree (1 major, 1 minor) Russian Language and Culture (2015)
 Bachelor's degree (1 major, 1 minor) German Language and Literature (2015)
 Bachelor's degree (2 majors) Egyptology (2015)
 Bachelor's degree (2 majors) Classical Archaeology (2015)
 Bachelor's degree (2 majors) Pedagogy (2015)
 Bachelor's degree (2 majors) Protestant Theology (2015)

Bachelor's degree (2 majors) History of Medieval and Modern Art (2015)
 Bachelor's degree (2 majors) Musicology (2015)
 Bachelor's degree (2 majors) Philosophy (2015)
 Bachelor's degree (2 majors) Comparative Indo-European Linguistics (2015)
 Bachelor's degree (2 majors) Special Education (2015)
 Bachelor's degree (2 majors) Pre- and Protohistoric Archaeology (2015)
 Bachelor's degree (2 majors) Latin Philology (2015)
 Bachelor's degree (2 majors) Science of Music Education (2015)
 Bachelor's degree (2 majors) Philosophy and Religion (2015)
 Bachelor's degree (2 majors) Theological Studies (2015)
 Bachelor's degree (2 majors) Digital Humanities (2015)
 Bachelor's degree (2 majors) Political and Social Studies (2015)
 Bachelor's degree (2 majors) Russian Language and Culture (2015)
 Bachelor's degree (2 majors) Greek Philology (2015)
 Bachelor's degree (2 majors) European Ethnology (2015)
 Bachelor's degree (2 majors) Indology/South Asian Studies (2015)
 Bachelor's degree (2 majors) Ancient Near Eastern Studies (2015)
 Bachelor's degree (2 majors) Geography (2015)
 Bachelor's degree (2 majors) French Studies (2015)
 Bachelor's degree (2 majors) History (2015)
 Bachelor's degree (2 majors) Spanish Studies (2015)
 Bachelor's degree (2 majors) Sport Science (Focus on health and Pedagogics in Movement) (2015)
 Bachelor's degree (2 majors) German Language and Literature (2015)
 Bachelor' degree (1 major) Mathematical Physics (2016)
 Bachelor' degree (1 major) Human-Computer Systems (2016)
 Bachelor's degree (2 majors) Theological Studies (2011)
 Bachelor's degree (1 major, 1 minor) French Studies (2016)
 Bachelor's degree (2 majors) French Studies (2016)
 Bachelor's degree (1 major, 1 minor) Italian Studies (2016)
 Bachelor's degree (2 majors) Italian Studies (2016)
 Bachelor's degree (1 major, 1 minor) Spanish Studies (2016)
 Bachelor's degree (2 majors) Spanish Studies (2016)
 Bachelor' degree (1 major) Romanic Languages (French/Italian) (2016)
 Bachelor' degree (1 major) Romanic Languages (French/Spanish) (2016)
 Bachelor' degree (1 major) Romanic Languages (Spanish/Italian) (2016)
 Bachelor' degree (1 major) Business Information Systems (2016)
 Bachelor' degree (1 major) Games Engineering (2016)
 Bachelor's degree (1 major, 1 minor) English and American Studies (2016)
 Bachelor's degree (2 majors) English and American Studies (2016)
 Bachelor' degree (1 major) Media Communication (2016)
 Bachelor' degree (1 major) Food Chemistry (2016)
 Bachelor's degree (1 major, 1 minor) Digital Humanities (2016)
 Bachelor's degree (1 major, 1 minor) Geography (2017)
 Bachelor's degree (1 major, 1 minor) History of Medieval and Modern Art (2017)
 Bachelor's degree (2 majors) History of Medieval and Modern Art (2017)
 Bachelor's degree (2 majors) Comparative Indo-European Linguistics (2017)
 Bachelor' degree (1 major) Aerospace Computer Science (2017)
 Bachelor' degree (1 major) Modern China (2017)
 Bachelor' degree (1 major) Biochemistry (2017)
 Bachelor' degree (1 major) Chemistry (2017)
 Bachelor's degree (1 major, 1 minor) Museology and material culture (2017)
 Bachelor' degree (1 major) Econometrics (2017)
 Bachelor' degree (1 major) Games Engineering (2017)

Bachelor' degree (1 major) Computer Science (2017)
 Bachelor' degree (1 major) Media Communication (2018)
 Bachelor' degree (1 major) Biomedicine (2018)
 Bachelor' degree (1 major) Human-Computer Systems (2018)
 Bachelor's degree (2 majors) Classical Archaeology (2018)
 Bachelor's degree (1 major, 1 minor) Classical Archaeology (2018)
 Bachelor's degree (1 major, 1 minor) Digital Humanities (2018)
 Bachelor's degree (2 majors) Digital Humanities (2018)
 Bachelor' degree (1 major) Computer Science (2019)
 Bachelor's degree (1 major, 1 minor) English and American Studies (2019)
 Bachelor's degree (1 major, 1 minor) Indology/South Asian Studies (2019)
 Bachelor' degree (1 major) Indology/South Asian Studies (2019)
 Bachelor' degree (1 major) Business Information Systems (2019)
 Bachelor's degree (2 majors) Indology/South Asian Studies (2019)
 Bachelor' degree (1 major) Business Management and Economics (2019)
 Bachelor' degree (1 major) Modern China (2019)
 Bachelor' degree (1 major) Food Chemistry (2019)
 Bachelor' degree (1 major) Biomedicine (2020)
 Bachelor' degree (1 major) Pedagogy (2020)
 Bachelor' degree (1 major) Political and Social Studies (2020)
 Bachelor' degree (1 major) Business Information Systems (2020)
 Bachelor's degree (1 major, 1 minor) Political and Social Studies (2020)
 Bachelor's degree (2 majors) European Ethnology (2020)
 Bachelor's degree (2 majors) Political and Social Studies (2020)
 Bachelor's degree (2 majors) Special Education (2020)
 Bachelor' degree (1 major) Physics (2020)
 Bachelor' degree (1 major) Nanostructure Technology (2020)
 Bachelor' degree (1 major) Mathematical Physics (2020)
 Bachelor' degree (1 major) Aerospace Computer Science (2020)
 Bachelor's degree (1 major, 1 minor) Museology and material culture (2020)
 Bachelor's degree (1 major, 1 minor) Pedagogy (2020)
 Bachelor's degree (2 majors) Pedagogy (2020)
 Bachelor' degree (1 major) Psychology (2020)
 Magister Theologiae Catholic Theology (2021)
 Bachelor's degree (2 majors) History (2021)
 Bachelor's degree (1 major, 1 minor) History (2021)